

National Environmental Achievement Track

Application Form

San Juan Generating Station

Name of facility

Public Service Comapnay of New Mexico

Name of parent company (if any)

County Road 6800

Street address

P.O. Box 227

Street address (continued)

Waterflow, NM 87421

City/State/Zip code

Give us information about your contact person for the National Environmental Achievement Track Program.

Name Mike Farley

Title Environmental Supervisor

Phone (505) 598-7628

Fax (505) 598-6036

E-mail mfarley@pnm.com

Why do we need this information?

EPA needs background information on your facility to evaluate your application.

What do you need to do?

- Provide background information on your facility. Identify your environmental requirements.



Tell us about your facility.

1	What do you do or make at your facility?	Coal-fired Ste	am Electric Generating Facility
2	List the Standard Industrial Classification (SIC) code(s) or North American Industrial Classification System (NAICS) codes that you use to classify business at your facility.	SIC 4911 NAICS	
3	Does your company meet the Small Business Administration definition of a small business for your sector?	Yes	⊠ No
4	How many employees (full-time equivalents) currently work at your facility?	☐ Fewer than ☐ 50-99 ☑ 100-499 ☐ 500-1,000 ☐ More than	

Section A, continued

5	Does your facility have an EPA ID number(s)? If yes, list in the right-hand column.	Yes NPDES – NMD RCRA – NMDO TRI – 87421SN	069424323
6	Identify the environmental requirements that apply to your facility. Use the Environmental Requirements Checklist, at the back of the instructions, as a reference. List your requirements to the right <i>or</i> enclose a completed Checklist with your application.	Checklist + sp	oreadsheet from EMS
7	Check the appropriate box in the right-hand column.	_	the requirements above. sed the Checklist with my
8	Optional: Is there anything else you would like to tell us about your facility?	See attached	l letter

Why do we need this information?

Facilities must have an operating Environmental Management System (EMS) that meets certain requirements.

Section B

Tell us about your EMS.

What do you need to do?

- Confirm that your EMS meets the Achievement Track requirements.
- Tell us if you have completed a self-assessment or have had a third-party assessment of your EMS.
- 1 Check **yes** if your EMS meets the requirements for each element below as defined in the instructions.
 - a. Environmental policy
 - b. Planning
 - c. Implementation and operation
 - d. Checking and corrective action
 - e. Management review
- 2 Have you completed at least one EMS cycle (plan-do-check-act)?
- 3 Did this cycle include both an EMS and a compliance audit?
- 4 Have you completed an objective selfassessment or third-party assessment of your EMS?

If yes, what method of EMS assessment did you use?

X Yes

Self-assessment

GEMI Other

☐ CEMP

Other

Why do we need this information?

Facilities must show that they are committed to improving their environmental performance. This means

Section

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that you can describe past achievements and will make future commitments.

What do you need to do?

Refer to the Environmental Performance Table in the instructions to answer questions 1 and 2.

1 Describe your past achievements for at least two environmental aspects. If you need more space than is provided, attach copies of this page.

Note to small facilities: If you qualify as a small facility as defined in the instructions, you are required to report past achievement for at least one environmental aspect.

First aspect you've selected

What aspect have	What was the pr	evious level	What is the curre	ent level?
you selected?	(2 years ago)?			
	Quantity	Units	Quantity	Units
SO2 EMISSIONS	42900	TONS	29500	TONS

i. How is the current level an improvement over the previous level?

Substantial reduction in the amount of SO2 emissions

ii. How did you achieve this improvement?

Major upgrade of the Flue Gas Desulfurization (FGD) system at San Juan Generating Station.

Second aspect you've selected

What aspect have you selected?	What was the pr (2 years ago)?	evious level	What is the curre	ent level?
Toxic Release Inventory Chemicals	Quantity 3.6	Units Million pounds	Quantity 2.2	Units Million pounds
i. How is the current level previous level?	an improvement o	over the	'	'
Reduction of reported T	RI chemicals trans	ferred or released	to the environme	ent.
ii. How did you achieve th	nis improvement?			
Increased flue gas scrub sampling provided bett	•	•	ns and site specific	c ash and coal

2 Select at least four environmental aspects (no more than two from any one category) from the Environmental Performance Table in the instructions and then tell us about your future commitments. If you need more space than is provided, attach copies of this section.

Note to small facilities: If you are a small facility, you are required to make commitments for at least two environmental aspects in two different categories.

First aspect you've selected

a. What is the aspect? SO2 Emissions

c. What is the current level? You may choose to state this as an absolute value or in terms of units of production or output.	Option A: Absolute value Option B: In terms of units of production or output	0.439 lbs/mmbtu (Quantity/Units) (Quantity/Units)
d. What is the improvement you are committing to over the next three years? You may choose to state this as an absolute value or in terms of units of production or output.	Option A: Absolute value Option B: In terms of units of production	0.420 lbs/mmbtu (Quantity/Units) (Quantity/Units)
e. How will you achieve this improvement?	or output Increased flue gas scrubbin of new limestone system	g through optimization
Second aspect you've selected		
a. What is the aspect?	Toxic Release Inventory Che	emical Reduction
a. What is the aspect?b. Is this aspect identified as significant in your EMS?	Toxic Release Inventory Che ☑ Yes ☐ No	emical Reduction
b. Is this aspect identified as significant in your	,	2.3 Million lbs (Quantity/Units)
 b. Is this aspect identified as significant in your EMS? c. What is the current level? You may choose to state this as an absolute value or in terms of units of production or output. d. What is the improvement you are committing to over the next three years? You may choose to 	 ✓ Yes ☐ No ✓ Option A: Absolute value ☐ Option B: In terms of units of production or output 	2.3 Million lbs (Quantity/Units)
 b. Is this aspect identified as significant in your EMS? c. What is the current level? You may choose to state this as an absolute value or in terms of units of production or output. d. What is the improvement you are committing to 	 ✓ Yes ☐ No ✓ Option A: Absolute value ☐ Option B: In terms of units of production or output ☒ Option A: 	2.3 Million lbs (Quantity/Units) (Quantity/Units) 250,000 lbs (reduction)

Third aspect you've selected

e.	How wi	l vou	achieve	this	improvemen	ıt?
٠.		. ,	MCIIIC VC		THIRD OF CHICE	

Reduction of acid gas emissions will be achieved by increased flue gas treatment. Other reductions will occur through lower ash levels in coal burned.

Third aspect you've selected		
a. What is the aspect?	Solid Waste	
b. Is this aspect identified as significant in your EMS?	⊠ Yes □ No	
c. What is the current level? You may choose to state this as an absolute value or in terms of units of production or output.	Option A: Absolute value Option B: In terms of units of production or output	1.7 million tons (Quantity/Units) (Quantity/Units)
d. What is the improvement you are committing to over the next three years? You may choose to state	Option A: Absolute value	50,000 tons (reduction) (Quantity/Units)
this as an absolute value or in terms of units of production or output.	Option B: In terms of units of production or output	(Quantity/Units)
e. How will you achieve this improvement?	Through the sale of ash for road base and a replacem	
Fourth aspect you've selected		
a. What is the aspect?	Preservation/Restoration	
b. Is this aspect identified as significant in your EMS?	☐ Yes⊠ No	
c. What is the current level? You may choose to state this as an absolute value or in terms of units of production or output.	Option A: Absolute value Option B:	none (Quantity/Units)

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Revised 11/16/2000 Mile Facles

	In terms of units of production or output	(Quantity/Units)
d. What is the improvement you are committing to over the next three years? You may choose to state	Option A: Absolute value	Migratory Fish Passage (Quantity/Units)
this as an absolute value or in terms of units of production or output.	Option B: In terms of units of production or output	(Quantity/Units)
e. How will you achieve this improvement?	PNM will support the San Implementation Program construction of a migrate San Juan River. This fish constructed by 2002. PN the donation of \$100,000 PNM land for the construction will encourage the migra Minnow and help to restort endangered species.	with the design and ory fish passage in the passage will be M's support will include O and an easement on ction. This fish passage tion of the Colorado Pike
Revised 11/16/2000 - Make Far	lez	

Why do we need this information?

Facilities must demonstrate their commitment to public outreach and performance reporting. You should have appropriate mechanisms in place to identify community concerns, to communicate with the public, and to provide information on your environmental performance.



What do you need to do?

- Describe your approach to public outreach.
- List three references who are familiar with your facility.
- 1 How do you identify and respond to community We attend community meetings, provide concerns? information through local newspapers and web site and we offer tours of the generating station. 2 How do you inform community members of Though community meetings on specific topics important matters that affect them? and through open house at generating station. Also through topic specific meetings with appropriate individuals. 3 How will you make the Achievement Track Annual Performance Report available to the Newspaper 1 public? Open Houses ☐ Other - publication in Annual Environmental

Report

4	Are there any ongoing citizen suits against your facility?	Yes	⊠ No
	If yes, describe briefly in the right-hand column.		

5 List references below

	Organization	Name	Phone number
Representative of a Community/ Citizen Group	New Mexico Citizens for Clean Air and Water	John Bartlit	(505) 672-9792
State/Local Regulator	New Mexico Environment Department	Jim Shively	(505) 827-1494
Other community/local reference	San Juan College	Dr. James Henderson	(505) 326-3311

Section E

On behalf of San Juan Generating Station,

I certify that

- I have read and agree to the terms and conditions, as specified in the *National Environmental Achievement Track Program Description* and in the *Application Instructions*;
- I have personally examined and am familiar with the information contained in this Application (including, if attached, the Environmental Requirements Checklist). The information contained in this Application is, to the best of my knowledge and based on reasonable inquiry, true, accurate, and complete, and I have no reason to believe the facility would not meet all program requirements;
- My facility has an environmental management system (EMS), as defined in the Achievement
 Track EMS requirements, including systems to maintain compliance with all applicable federal,
 state, tribal, and local environmental requirements, in place at the facility, and the EMS will be
 maintained for the duration of the facility's participation in the program;
- My facility has conducted an objective assessment of its compliance with all applicable federal, state, tribal, and local environmental requirements, and the facility has corrected all identified instances of potential or actual noncompliance;
- Based on the foregoing compliance assessment and subsequent corrective actions (if any were necessary), my facility is, to the best of my knowledge and based on reasonable inquiry, currently in compliance with applicable federal, state, tribal, and local environmental requirements.

I agree that EPA's decision whether to accept participants into or remove them from the National Environmental Achievement Track is wholly discretionary, and I waive any right that may exist under any law to challenge EPA's acceptance or removal decision.

I am the senior facility manager and fully authorized to execute this statement on behalf of the corporation or other legal entity whose facility is applying to this program.

Signature/Date

Printed Name/Title Russell Huffman / Power Production Manager

Facility Name San Juan Generating Station

Facility Street Address County Road 6800 Waterflow, New Mexico

P.O. Box 227 Waterflow, New Mexico 87421

Facility ID Numbers NPDES - NMD0028606

RCRA - NMD069424323 TRI - 87421SNJNGCOUNT

Applicable Requirements - San Juan Generating Station

Environmental Protection Agency (40 CFR, Chapter I)

	Policies and requirements for states and local agencies in			Part 130 Water Quality Planning and Management
	Requirements for discharges of listed toxic pollutants			Part 129 - Toxic Pollutant Effluent Standards
	Criteria for treatment technologies, effluent limitations, and best management practices		~	Part 125 – Criteria and Standards for the NPDES
	EPA procedures for permit decisions relating to RCRA, UIC, PSD, and NPDES			Part 124 – Procedures for Decision Making
	EPA procedures for granting states NPDES program authority			Part 123 – State Program Requirements
	Permitting requirements for facility discharges		<	Part 122 – EPA Administered Permit Programs: NPDES
	State requirements for issuing certifications			Part 121 - State Certification of Activities Requiring a Federal License or Permit
	Identifies reportable quantities and notification requirements for the purposes of Subchapter D		<	Part 117 – Determination of Reportable Quantities for Hazardous Substances
	Identifies hazardous substances for the purposes of Subchapter D		<	Part 116 – Designation of Hazardous Substances
	Establishes liability limits for facilities with 1000 bbl or less of oil			Part 113 – Liability Limits for Small Onshore Storage Facilities
	SPCC Plan and Facility Response Plan requirements		<	Part 112 - Oil Pollution Prevention
	Defines harmful discharge of oil		~	Part 110 – Discharge of Oil
	Establishes criteria and guidelines for state, local and regional agencies in the development of oil removal contingency plans			Part 109 – Criteria for State, Local and Regional Oil Removal Contingency Plans
	Applies to employees who are discharged, etc. because of effluent limitations			Part 108 – Employee Protection Hearings
	Applies to hearings regarding toxic pollutant effluent standards			Part 104 – Public Hearings on Effluent Standards for Toxic Pollutants
				D – Water Programs
		_		
		<	<	C – Air Programs
	Mainly information, no action required by SJGS		<	B – Grants and Other Federal Assistance
	Mainly information, no action required by SJGS		\ \	A – General
Comments	Description	State Equiv.	Applicable	Regulation

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				 J - Superfund, Emergency Planning, and Community Right-to- Know Programs
	IIdzai dous wastes			
	Identification, storage, transport, and disposal of solid and	<	<	I – Solid Wastes
	Requirements for ocean dumping			H – Ocean Dumping
	Noise emission standards for specific sources			G – Noise Abatement Programs
	Protection requirements for specific activities			F – Radiation Protection Programs
	Regulations regarding the manufacture and use of pesticide			E – Pesticide Programs
	Criteria for identifying critical aquifer protection areas			Part 149 – Sole Source Aquifers
	Identification of restricted wastes			Part 148 - Hazardous Waste Injection Restrictions
	state			Part 147 – State UIC Programs
	classes			
	Technical criteria and standards for the various well			Part 146 – UIC Program: Criteria and Standards
	Requirements for state implementation of UIC program			Part 145 - State UIC Program Requirements
	Requirements for UIC program			Part 144 - Underground Injection Control (UIC) Program
	Control of contaminants with which affect aesthetic qualities of drinking water			Part 143 – National Secondary Drinking Water Regulations
	Enforcement and variations			Part 142 - National primary Drinking Water Regulations Implementation
	Maximum contaminant levels, monitoring requirements, disinfection, filtration and treatment			Part 141 - National Primary Drinking Water Regulations
	Applies to vessels			Part 140 – Marine Sanitation Device Standard
	Test procedures for analyzing pollutants in accordance with NPDES		<	Part 136 - Guidelines Establishing Test Procedures for Analysis of Pollutants
	Notice requirements for those filing citizen suits			Part 135 – Prior Notice of Citizen Suits
	Minimum effluent quality obtained through secondary treatment			Part 133 – Secondary Treatment Regulations
	Applies to Great Lakes states			Part 132 – Water Quality Guidance for the Great Lakes System
	Guidelines for EPA, state, and local agencies in establishing water quality standards			Part 131 – Water Quality Standards
	water quality planning and management			
Comments	. Description	State Equiv.	Applicable	Regulation

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	Wastewater effluent limits for power plants		Part 423 – Steam Electric Power Generating Point Source
	None of the activities specified in these parts are applicable to PNM.		Parts 405 – 422 – Requirements for specific point source categories
	Requirements for controlling pollutants which are discharged to POTW or which may contaminate sewage sludge		Part 403 – General Pretreatment Regulations Existing and New Sources of Pollution
	Definitions and identification of toxic pollutants		Part 401 – General Provisions
			N – Effluent Guidelines
	Notice requirements for those filing citizen suits		Part 374 – Prior Notice of Citizen Suits
	waste activity in real estate transactions		or Transferring Federal Real Property
	reporting requirements	*	Right-to-Know
	Toxic Release Inventory (TRI) reportable chemicals TRI		Dart 277 Toxic Chamical Delegge Penarting: Community
	MSDS and chemical inventory reporting requirements	<	Part 370 – Hazardous Chemical Reporting: Community Right-to- Know
	Identifies extremely hazardous substances, emergency planning requirements, and release notification requirements	<	Part 355 – Emergency Planning and Notification
			Disclosures to Traini i Ioressionais
	Rules governing trade secrecy claims		Part 350 – Trade Secrecy Claims for Emergency Planning and Community Right-to-Know Information: and Trade Secret Disclosures to Health Professionals
	Applies to state and local government employees		Part 311 – Worker Protection
	response costs		Response to Hazardous Substance Releases
	11n to \$25 000 raimburgament to local revernments for		Dout 210 Point Lingsmont to I good Congression for Empression
	Procedures for submitting cost recovery claims for response costs		Part 307 – CERCLA Claims Procedures
	denial of response claims asserted against Superfund		Claims Against the Superfund
	Governs administrative proceedings for the total or partial		Part 305 – CERCLA Administrative Hearing Procedures for
			Recovery Claims
	FPA cost recovery procedures		Part 304 - Arbitration Procedures for Small Superfund Cost
	Provides monetary awards to individuals with information on CERCLA violations		Part 303 – Citizen Awards for Information on Criminal Violations Under Superfund
	Identifies CERCLA and CWA hazardous substances, reportable quantities, and release notification requirements	<	Part 302 - Designation, Reportable Quantities, and Notification
	responding to releases		Contingency Plan
,	_		Part 300 - National Oil and Hazardous Substances Pollution
Comments	State Equiv. Description	Applicable Sta	Regulation

Regulation	Applicable	Applicable State Equiv. Description		Comments
Category				
Part 424 – 471 – Requirements for specific point source			None of the activities specified in these parts are	
categories			applicable to PNM.	
O – Sewage Sludge			Requirements for managing sewage sludge	
Q – Energy Policy			Fuel economy requirements	
R – Toxic Substances Control Act			Reporting requirements for chemical manufacturing, requirements for activities associated with asbestos, PCBs, and other specified substances	

New Mexico Administrative Code Requirements (20 NMAC)

Damistica	Applicable	Description	Comments
Neggranor	Applicable	Description .	Commission
1 – Environmental Protection, General	<	Rule making, adjudicatory, and permit procedures	
2 – Air Quality	<		
3 - Radiation Protection		Licensing and certification	
4 – Hazardous Waste			
1 – Hazardous Waste Management	<	Requirements for the generation, storage, transport, and disposal of hazardous waste	
2 - Hazardous Waste Management Fees		Fee schedule for treatment, storage, and disposal facilities	
2 - Repeal of 1995 Hazardous Waste Fees		Repeal of 20 NMAC 4.2 filed 10/27/95	
3 – Annual Hazardous Waste Fees	<	Fee schedule for generators, and operators of treatment, storage, and disposal facilities	
3 - Amendments to Annual Hazardous Waste Fees		Fee schedule for generators, and operators of treatment, storage, and disposal facilities that receive imported wastes	
5 – Underground Storage Tanks		() () () () () () () () () () () () () (
1-1 General Provisions	<	Applies to owners and operators of USTs	
2 – Registration of Tanks	<	UST owners and operators must register tanks	
3 – Annual Fee	<	Owners and operators of USTs must remit annual fees for the tanks	
4 - New and Upgraded UST Systems: Design, Construction, and Installation	<	Performance requirements for new systems and upgrade requirements for existing tanks by 12/22/98	

	Operator requirements for the different classes of public water supply and waste water systems		4 – Utility Operator Certification
	Requirements for on-site liquid waste systems which receive \leq 2000 gallons of liquid waste per day		3 – Liquid Waste Disposal
			2 - Rural Water Supply Infrastructure
	Requirements for operators of public water supply systems or those responsible for siting private water supply sources		1 – Drinking Water
			7 - Waste Water and Water Supply
	Provisions for voluntary remediation		3 - Voluntary Remediation Program
	Requirements regarding discharge plans, effluent limitations, abatement plans, UIC, and in-situ extraction wells	~	2 – Ground and Surface Water Protection
	Designates the uses for which surface waters will be protected and prescribes water quality standards necessary to sustain uses.		I – Standards for Interstate and Intrastate Streams
			6 - Water Quality
	Department procedures for fund disbursement		17 - Corrective Action Fund Payment and Reimbursement
	Requirements for corrective action contractors who will be compensated from the corrective action fund		16 – Certification of Contractors
	Priority ranking procedures for corrective action and corrective action fund administration		15 - Corrective Action Fund Allocation for State-Lead Sites
	Requirements for those who install and repair tanks	<	14 – Certification of Tank Installers
	Requirements for clean up of releases		13 – Corrective Action for UST Systems Containing Other Regulated Substances
	Requirements for clean up of releases	<	12 - Corrective Action for UST Systems Containing Petroleum
	Liability limitations for those who have a security interest in USTs		11 – Lender Liability
	Procedures for review of department decisions	<	10 – Administrative Review
	Requirements for demonstrating assets are sufficient enough to fund corrective actions if necessary	<	9 – Financial Responsibility
	Closure requirements	<	8 - Out-of-Service Systems and Closure
	Requirements in the event of a release or suspected release	<	7 - Release Reporting, Investigation, and Confirmation
	Release detection requirements	<	6 – Release Detection
Comments	Description Spill control, compatibility, repairs, and reporting and recordkeeping requirements	Applicable	Regulation 5 - General Operating Requirements

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Regulation	Applicable	Description	Comments
5 - Waste Water Facility Construction Loans		Establish program to provide financial assistance to local authorities	
6 - Waste Water Facility Construction Loan Policies and		Procedures for administering loans from the Waste Water Facility	
Guidelines		Construction Loan Fund	
7 - Review Procedures for Waste Water Facility Construction		Identification and analysis of environmental impacts of facilities funded	
Loans		by the loan program	
8 - Colonias Priority Rating System		Ranking system to provide funds for waste water projects in border areas	
9 - Colonias Waste Water Grant Policies		Policy on administering funds through Colonias Waste Water	
		:	
The manufacture of the second			
8 – Nuisance Abatement		Mosquito and abatement control	
9 – Solid Waste			
1 - Solid Waste Management	<	Requirements for transportation, storage, transfer, processing,	
		transformation, recycling, or disposal of solid waste	
2 – Tire Recycling		Requirements for operating tire recycling facilities and storing scrap tires	
3 – Facility Grant Fund		Use of funds in Solid Waste Grant Fund by municipalities and counties	
4 - Solid Waste Plan			
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San Juan

Generating Station

San Juan Generating Station

Updated April 2000



SJGS

San Juan Generating Station (SJGS) is located on private land approximately 15 miles northwest of Farmington, New Mexico. The

Station is operated by Public Service Company of New Mexico (PNM) and consists of four coal-fired, pressurized units.

	Gross MW	On-line	Net MW Generation
Unit 1	360 MW	1976	Unit 1 - 327 MW
Unit 2	350 MW	1973	Unit 2 - 316 MW
Unit 3	544 MW	1979	Unit 3 - 497 MW
Unit 4	544 MW	1982	Unit 4 - 507 MW
Total	1798 MW		Total - 1647 MW

Units 1 & 2: Jointly owned by PNM (50%) and Tucson Electric Power Company (50%).

Unit 3: Jointly owned by PNM (50%), Tri-State Generation and Transmission Association (8.20%), and Southern California Public Power Authority (SCPPA) (41.8%).

Unit 4: Jointly owned by PNM (38.457%), M-S-R Public Power Agency (Modesto, Santa Clara and Redding, California) (28.8%), City of Farmington (8.475%), Los Alamos County (7.2%), City of Anaheim (10.04%), and Utah Associated Municipal Power Systems (UAMPS) (7.028%).

COAL SUPPLY

SJGS is a mine-mouth plant, located next to San Juan Mine. La Plata Mine is located approximately 20 miles from the plant. Both mines are operated by BHP Minerals and provide over six million tons of coal each year for plant consumption.

IN OUR COMMUNITY

Employment: 438 full-time employees with an annual payroll near \$23.7 million with additional associated payroll costs of \$10.1million annually.

Taxes & Economy: SJGS is the largest property-tax payer in San Juan County paying approximately \$8.4 million annually. In addition, owners of SJGS annually pay \$41.2 million in royalties and taxes for coal deliveries to SJGS. SJGS also expends approximately \$12 million in purchases (materials & supplies) and \$14.9 million in contracts annually. These expenditures contribute significantly to the local economy.

Community Support: \$125,000 is donated annually to local non-profit organizations with a focus on education, environment, and minority advocacy; \$25,000 of which is for local college scholarships.

Since 1990, our Emergency Response Team has teamed up with local fire fighters to provide fire prevention education to over 5,000 elementary students in SJ County each year. This program has received the National Educators Association's "Business Friend of Education" state and regional awards and the National Fire Protection Association's "Fire Prevention Week" award.

Environmental

San Juan Plant meets or exceeds all state and federal regulations for

 NO_x , SO_2 , and particulate control. SJGS is a zero liquid discharge facility. Twenty-four thousand acre-feet of water is available from the San Juan River and is used for boilers, cooling towers, and scrubbers. All water is managed efficiently, allowing only evaporation loss.

POLLUTION CONTROL INVESTMENT (AFTER LIMESTONE CONVERSION)

30% of Capital and O&M costs are for pollution control systems.

Wastewater Management \$130,000,000

Flue Gas Desulfurization System \$217,700,000

Other Costs (precipitators & cooling tower) \$186,000,000

Mine Restoration \$5,000 - \$6,000 / Acre

ENVIRONMENTAL SYSTEM PERSONNEL

164 Employees or 37% of Total Plant Complement

WASTEWATER

San Juan Station first accomplished zero discharge in 1983. Wastewater is collected and routed to two Brine Concentrators for treatment. Total treatment capacity is approximately 1,000 gallons per minute.

COOLING TOWER

A Hybrid Wet-Dry Cooling Tower was designed and built for Unit 3 to minimize the amount of water lost through evaporization while running the unit. This resulted in substantial net water savings at design conditions.

EMISSION CONTROL SYSTEM

A limestone forced oxidation system is used for flue gas desulfurization. It is capable of 75% removal of sulfur dioxide. This new system replaced an older more costly system, which had been in service for twenty years. The limestone system uses about 140,000 tons per year of limestone, which is supplied from the Grants, NM area. Removed sulfur is converted to almost 265,000 tons per year of gypsum, which is disposed of in the mine along with flyash and bottom ash. The new limestone system removes more sulfur dioxide than the old system did with less cost. Conversion of the old system into a forced oxidation limestone system cost about \$75 million and has allowed for about ½ of the wastewater treatment to be abandoned. Also, the old Chemical Plant has been retired.

Our Environmental Management System has been registered in accordance with the ISO 14001 requirements.

conferred upon

Water tions.

determined by Advanced Maste Manayement Systems, Incorporated, the Reyistrar, to be in earthrumos und Having been examined in defuil for conformance to the requirements of 360 tolor. Arek Schiau. international standard at the aforementioned tocation, the professionestal Management System of the Manugement System in accordance with the specifications of 350 14001, and the requirements of ISO 14001. Ohe registration ahall remain in effect until march 23, 2003, praufding the argan

In witness whereof this Certificate of Registration is granted and the Mark of Registration and our signatures are hereunto

Attested to this 23th day of March 2000.

Reland a Ellin

Richard A. Ellis, Ph.D. Arbiter of Registration James or Mullean

fames N. Mullican, P.E. President



Registration Number 00075



National Environmental Achievement Track

Environmental Requirements Checklist

The following Checklist is provided to assist facilities in answering Section A, "Tell us about your facility," Question 6. The Checklist is given to help facilities identify the major federal, state, tribal, and local environmental requirements applicable at their facilities. The Checklist is not intended to be an exhaustive list of all environmental requirements that may be applicable at an individual facility.

If you use this Checklist and choose to submit it with your application, fill in your facility information below and enclose the completed Checklist with your application (see instructions).

NPDES - NMD0028606, RCRA - NMD069424323,

San Juan Generating Station

TRI – 87421SJNGCOUNT

County Road 6800

		Check All
<u>Air</u>	Pollution Regulations	That Apply
1.	National Emission Standards for Hazardous Air Pollutants (40 CFR 61)	
2.	Permits and Registration of Air Pollution Sources	\boxtimes
3.	General Emission Standards, Prohibitions and Restrictions	\boxtimes
4.	Control of Incinerators	
5.	Process Industry Emission Standards	
6.	Control of Fuel Burning Equipment	
7.	Control of VOCs	
8.	Sampling, Testing and Reporting	\boxtimes
9.	Visible Emissions Standards	\boxtimes
10.	Control of Fugitive Dust	\boxtimes
11.	Toxic Air Pollutants Control	
12.	Vehicle Emissions Inspections and Testing	
	Other Federal, State, Tribal or Local Air Pollution Regulations Not Listed (identify)	l Above
13.	New Mexico Air Quality Control Regulations	\boxtimes
14.		
Haz	ardous Waste Management Regulations	
1.	Identification and Listing of Hazardous Waste (40 CFR 261)	
	- Characteristic Waste	\boxtimes
	- Listed Waste	\boxtimes

2. Standards Applicable to Generators of Hazardous Waste (40 CFR 262)

Facility Name

if necessary)

Facility Location:

Facility ID Number(s):

(attach additional sheets

	- Manifesting	\boxtimes
	- Pre-transport requirements	$\overline{\boxtimes}$
	- Record keeping/reporting	$\overline{\boxtimes}$
3.	Standards Applicable to Transporters of Hazardous Waste (40 CFR 263)	
	- Transfer facility requirements	
	- Manifest system and record-keeping	
	- Hazardous waste discharges	
4.	Standards for Owners and Operators of TSD Facilities (40 CFR 264)	
	- General facility standards	
	- Preparedness and prevention	
	- Contingency plan and emergency procedures	
	- Manifest system, Record keeping and reporting	
	- Groundwater protection	
	- Financial requirements	
	- Use and management of containers	
	- Tanks	
	- Waste piles	
	- Land treatment	
	- Incinerators	
5.	Interim Status Standards for TSD Owners and Operators (40 CFR 265)	
6.	Interim Standards for Owners and Operators of New Hazardous Waste Land	
	Disposal Facilities (40 CFR 267)	
7.	Administered Permit Program (Part B) (40 CFR 270)	
	Other Federal, State, Tribal or Local Hazardous Waste Management Regu	ulations Not
	Listed Above (identify)	
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8.		
8. 9.		
9.	ardous Materials Management	
9.	ardous Materials Management Control of Pollution by Oil and Hazardous Substances (33 CFR 153)	
9. Haza		
9. Haza 1.	Control of Pollution by Oil and Hazardous Substances (33 CFR 153)	
9. Haza 1.	Control of Pollution by Oil and Hazardous Substances (33 CFR 153) Designation of Reportable Quantities and Notification of Hazardous	
9. Haza 1. 2.	Control of Pollution by Oil and Hazardous Substances (33 CFR 153) Designation of Reportable Quantities and Notification of Hazardous Materials Spill (40 CFR 302)	
9. Haza 1. 2.	Control of Pollution by Oil and Hazardous Substances (33 CFR 153) Designation of Reportable Quantities and Notification of Hazardous Materials Spill (40 CFR 302) Hazardous Materials Transportation Regulations (49 CFR 172-173)	
9. Haza 1. 2. 3. 4.	Control of Pollution by Oil and Hazardous Substances (33 CFR 153) Designation of Reportable Quantities and Notification of Hazardous Materials Spill (40 CFR 302) Hazardous Materials Transportation Regulations (49 CFR 172-173) Worker Right-to-Know Regulations (29 CFR 1910.1200) Community Right-to-Know Regulations (40 CFR 350-372)	
9. Haza 1. 2. 3. 4.	Control of Pollution by Oil and Hazardous Substances (33 CFR 153) Designation of Reportable Quantities and Notification of Hazardous Materials Spill (40 CFR 302) Hazardous Materials Transportation Regulations (49 CFR 172-173) Worker Right-to-Know Regulations (29 CFR 1910.1200) Community Right-to-Know Regulations (40 CFR 350-372) Other Federal, State, Tribal or Local Hazardous Materials Management Regulations	
9. Haza 1. 2. 3. 4. 5.	Control of Pollution by Oil and Hazardous Substances (33 CFR 153) Designation of Reportable Quantities and Notification of Hazardous Materials Spill (40 CFR 302) Hazardous Materials Transportation Regulations (49 CFR 172-173) Worker Right-to-Know Regulations (29 CFR 1910.1200) Community Right-to-Know Regulations (40 CFR 350-372)	
9. Haza 1. 2. 3. 4. 5.	Control of Pollution by Oil and Hazardous Substances (33 CFR 153) Designation of Reportable Quantities and Notification of Hazardous Materials Spill (40 CFR 302) Hazardous Materials Transportation Regulations (49 CFR 172-173) Worker Right-to-Know Regulations (29 CFR 1910.1200) Community Right-to-Know Regulations (40 CFR 350-372) Other Federal, State, Tribal or Local Hazardous Materials Management Regulations	
9. Haza 1. 2. 3. 4. 5.	Control of Pollution by Oil and Hazardous Substances (33 CFR 153) Designation of Reportable Quantities and Notification of Hazardous Materials Spill (40 CFR 302) Hazardous Materials Transportation Regulations (49 CFR 172-173) Worker Right-to-Know Regulations (29 CFR 1910.1200) Community Right-to-Know Regulations (40 CFR 350-372) Other Federal, State, Tribal or Local Hazardous Materials Management Regulations	
9. Haza 1. 2. 3. 4. 5.	Control of Pollution by Oil and Hazardous Substances (33 CFR 153) Designation of Reportable Quantities and Notification of Hazardous Materials Spill (40 CFR 302) Hazardous Materials Transportation Regulations (49 CFR 172-173) Worker Right-to-Know Regulations (29 CFR 1910.1200) Community Right-to-Know Regulations (40 CFR 350-372) Other Federal, State, Tribal or Local Hazardous Materials Management R Not Listed Above (identify)	
9. Haza 1. 2. 3. 4. 5. 6. 7.	Control of Pollution by Oil and Hazardous Substances (33 CFR 153) Designation of Reportable Quantities and Notification of Hazardous Materials Spill (40 CFR 302) Hazardous Materials Transportation Regulations (49 CFR 172-173) Worker Right-to-Know Regulations (29 CFR 1910.1200) Community Right-to-Know Regulations (40 CFR 350-372) Other Federal, State, Tribal or Local Hazardous Materials Management R Not Listed Above (identify)	
9. Haza 1. 2. 3. 4. 5.	Control of Pollution by Oil and Hazardous Substances (33 CFR 153) Designation of Reportable Quantities and Notification of Hazardous Materials Spill (40 CFR 302) Hazardous Materials Transportation Regulations (49 CFR 172-173) Worker Right-to-Know Regulations (29 CFR 1910.1200) Community Right-to-Know Regulations (40 CFR 350-372) Other Federal, State, Tribal or Local Hazardous Materials Management R Not Listed Above (identify) B Waste Management Criteria for Classification of Solid Waste Disposal Facilities and Practices	
9. Haza 1. 2. 3. 4. 5. 6. 7.	Control of Pollution by Oil and Hazardous Substances (33 CFR 153) Designation of Reportable Quantities and Notification of Hazardous Materials Spill (40 CFR 302) Hazardous Materials Transportation Regulations (49 CFR 172-173) Worker Right-to-Know Regulations (29 CFR 1910.1200) Community Right-to-Know Regulations (40 CFR 350-372) Other Federal, State, Tribal or Local Hazardous Materials Management R Not Listed Above (identify)	

3. 4. 5.	Installation of Systems of Refuse Disposal Solid Waste Storage and Removal Requirements Disposal Requirements for Special Wastes	
	Other Federal, State, Tribal or Local Solid Waste Management Regulation	ıs Not
	Listed Above (identify)	∇
6. 7.	New Mexico Solid Waste Management Regulations	
7.		
Wat	er Pollution Control Requirements	
1.	Oil Spill Prevention Control and Countermeasures (SPCC) (40 CFR 112)	\boxtimes
2.	Designation of Hazardous Substances (40 CFR 116)	\boxtimes
3.	Determination of Reportable Quantities for Hazardous Substances (40 CFR	
	117)	
4.	NPDES Permit Requirements (40 CFR 122)	
5.	Toxic Pollutant Effluent Standards (40 CFR 129)	
6.	General Pretreatment Regulations for Existing and New Sources (40 CFR 403)	
7.	Organic Chemicals Manufacturing Point Source Effluent Guidelines and Standards (40 CFR 414)	
8.	Inorganic Chemicals Manufacturing Point Source Effluent Guidelines and Standards (40 CFR 415)	
9.	Plastics and Synthetics Point Source Effluent Guidelines and Standards (40 CFR 416)	
10.	Water Quality Standards	\boxtimes
11.	Effluent Limitations for Direct Dischargers	X
12.	Permit Monitoring/Reporting Requirements	X
13.	Classifications and Certifications of Operators and Superintendents of	
	Industrial Wastewater Plants	
14.	Collection, Handling, Processing of Sewage Sludge	
15.	Oil Discharge Containment, Control and Cleanup	$\overline{\boxtimes}$
16.	Standards Applicable to Indirect Discharges (Pretreatment)	
	Other Federal, State, Tribal or Local Water Pollution Control Regulations Above (identify)	Not Listed
17.	New Mexico Water Quality Control Commission Regulations	\boxtimes
18.	New Mexico Underground Storage Tank Regulations	\boxtimes
D	Lina Watan Damilatiana	
	<u>king Water Regulations</u> Underground Injection and Control Regulations, Criteria and Standards (40	
1.	CFR 144, 146)	Ш
2.	National Primary Drinking Water Standards (40 CFR 141)	
3.	Community Water Systems, Monitoring and Reporting Requirements (40	H
٥.	CFR 141)	
4.	Permit Requirements for Appropriation/Use of Water from Surface or	

5. 6.	Underground Injection Control Requirements Monitoring, Reporting and Record keeping Requirements for Community Water Systems	
	Other Federal, State, Tribal or Local Drinking Water Regulations Not Listed Above (identify)	l
7. 8.		
Tox	ic Substances	
1.	Manufacture and Import of Chemicals, Record keeping and Reporting	
2.	Requirements (40 CFR 704) Import and Export of Chemicals (40 CFR 707)	
3.	Chemical Substances Inventory Reporting Requirements (40 CFR 710)	
4.	Chemical Information Rules (40 CFR 712)	
5. 6.	Health and Safety Data Reporting (40 CFR 716) Pre-Manufacture Notifications (40 CFR 720)	
7.	PCB Distribution Use, Storage and Disposal (40 CFR 761)	
8. 9.	Regulations on Use of Fully Halogenated Chlorofluoroalkanes (40 CFR 762) Storage and Disposal of Waste Material Containing TCDD (40 CFR 775)	
	Other Federal, State, Tribal or Local Toxic Substances Regulations Not Liste	d Above
10.	(identify)	
11.		
Pest	icide Regulations	
1.	FIFRA Pesticide Use Classification (40 CFR 162)	
2.	Procedures for Disposal and Storage of Pesticides and Containers (40 CFR	
3.	165) Certification of Pesticide Applications (40 CFR 171)	
4.	Pesticide Licensing Requirements	
5.	Labeling of Pesticides	
6. 7.	Pesticide Sales, Permits, Records, Application and Disposal Requirements Disposal of Pesticide Containers	
8.	Restricted Use and Prohibited Pesticides	
	Other Federal, State, Tribal or Local Pesticides Regulations Not Listed Above	e
	(identify)	
9. 10.		
10.		Ш
	ironmental Clean-Up, Restoration, Corrective Action	
1.	Comprehensive Environmental Response, Compensation and Liability Act (Superfund) (identify)	
	Release Reporting Requirements	\boxtimes

2.	RCRA Corrective Action (identify)	
	Other Federal, State, Tribal or Local Environmental Clean-Up, Restoration,	
	Corrective Action Regulations Not Listed Above (identify)	
3.		
4.		

Richard T. Farrell U.S. Environmental Protection Agency Office of Policy, Economics, and Innovation Washington, DC 20460

Subject: National Environmental Achievement Track September 22,2000

Dear Mr. Farrell:

Recently you sent us information concerning EPA's National Environmental Achievement Track program and extended an invitation to us to participate in this program. We have reviewed the information that you sent and the information on your Internet site. We are very much interested in the program and are submitting the enclosed application for the Achievement Track Program for San Juan Generating Station.

San Juan Generating Station (SJGS) is a four unit coal- fired steam electric generating station located near Farmington, NM. SJGS has a total capacity of approximately 1800 megawatts. The first unit began operation in 1976 and the last unit started in 1982. In 1983 SJGS achieved zero discharge – all of the water that we use at the facility is either recycled of disposed in lined solar evaporation ponds. There are nine different owners of SJGS. Public Service Company of New Mexico is the majority owner and the operating agent for the station. SJGS provides electricity to customers in New Mexico, Colorado, Utah, Arizona and California.

As you noted in your letter, San Juan Generating Station recently received registration through the ISO 14001 process for our Environmental Management System. Although an Environmental Management System was not new to San Juan we felt that the ISO 14001 system would formalize our EMS and offer a tool for continued improvements and a method to track those improvements. We successfully completed this registration process in March 2000. Since that time we have gone through both an internal audit and a surveillance audit of the system.

We have selected the following four aspect that we will include in our Achievement Track program:

1) SO2 Emissions Reductions

San Juan has had a flue gas desulfurization system installed and operating since 1979. Our original FGD system was a Wellman-Lord system. This was a regenerative system that removed the SO2 from the flue gas through a wet scrubbing solution. The scrubbing solution was regenerated and the SO2 was converted to elemental sulfur and sulfuric acid. In 1997 we began construction of a Limestone based FGD system. This system included the construction of new equipment and conversion of our existing SO2 absorber cells for the new limestone process. The construction and conversion was completed in 1999.

As part of our commitment to the New Mexico Environment Department with the new limestone system, we agreed to reduce the SO2 emissions limitations from the previous requirement of 0.65 lbs/mmbtu to 0.46 lb/mmbtu. The reductions of SO2 emissions that we have accomplished are:

Year	SO2 – tons	SO2-lbs/mmbtu	
1997	42,943	0.607	
1998	39,960	0.574	
1999	29,471	0.439	

As you can see from the above data, we have made substantial reductions in our SO2 emissions. While further reductions of those magnitudes will not be possible, we feel that through optimization of the system that we will be able to further reduce our SO2 emissions. SJGS will commit to this optimization and will commit to a target of 0.420 lbs/mmbtu.

2) Toxic Release Inventory Chemical Reduction

In 1998 coal fired electric generating facilities were required to report the release or transfer of chemicals to the environment under the Toxic Release Inventory (TRI) requirements. For 1998 San Juan reported a total release/transfer of approximately 3.6 million pounds of TRI chemicals. For 1999 we were able to reduce the amount of chemicals reported to approximately 2.2 million pounds. This reduction was achieved by a combination of an increase in the amount of flue gas that was treated by our flue gas desulfurization system and by more accurate site specific coal and ash sampling.

San Juan will commit to a further reduction of the TRI chemicals that are released/transferred to the environment of 250,000 pounds. This reduction will be accomplished by increasing the amount of flue gas that is treated by our limestone SO2 removal system and by burning coal with a lower ash content.

3) Reduction of Solid Waste

San Juan burns approximately 6.5 million tons of coal each year. The coal averages approximately 26% ash. Most of the ash that is produced is returned to the adjacent San Juan Mine, owned by BHP, for use as fill for the surface mine pits. We are currently developing a partnership with a cement company to use ash for other beneficial purposes. This includes a replacement for cement and as a road base in highway construction.

San Juan will commit to further developing this partnership to use more of the ash for beneficial use. Although transportation costs and the uncertainty of the market can have a negative effect we will commit to increase the amount of ash that is used for other beneficial uses to at least 50,000 tons.

4) Endangered Species Habitat:

The San Juan River, which is the source of water for the San Juan Generating Station, is home to Colorado Pike Minnow and the Razorback Sucker. These are endangered or threatened species. SJGS has cooperated and participated in the San Juan River Implementation Project and is supporting the Bureau of Reclamation (BOR) with the construction of a migratory fish passage (fish ladder) around a water diversion structure in the San Juan River.

4) Endangered Species Habitat: (continued)

SJGS will commit to further support to the BOR. During 2000 or 2001 SJGS will donate \$100,000 for the study, design and construction of the migratory fish passage. In addition, we will also work with the BOR on the design of the fish passage and if necessary will allow the construction of this fish passage on our land. We will also continue to work with the BOR and the US Game and Fish Department on the recovery of the Colorado Pike Minnow.

Attached is the application form for the Achievement Track program. Please feel free to contact Mike Farley at (505) 598-7628 if you have any questions or if you need any additional information.

Sincerely

Russell Huffman Power Production Manager

Attachments